

Patent claims

1. System (2) for image-supported shockwave treatment, with the following embodiment:
  - 5 - it comprises an x-ray C-arm (4) that can move orbitally around an isocenter (32), with an x-ray system (34, 36), a shockwave head (6) and a carrier device for the shockwave head (6), which carrier device is arranged laterally from and stationary relative to the x-ray C-arm (4),
  - a boom (64) extending towards the x-ray C-arm (4) is connected with its  
10 fixed end (67) with the carrier device and bears the shockwave head (6) with its free end (66),
  - the boom (64) is movably directed with the aid of the carrier device such that the shockwave head (6) can be arbitrarily positioned in the orbital plane (40) within an angle range of at least 180° above and below a patient table (10) and can  
15 be aligned on the isocenter (32).
2. System (2) according to claim 1, in which the boom (64) is forcibly directed in a plane parallel to the orbital plane (40) of the x-ray C-arm (4).
- 20 3. System (2) according to claim 1 or 2, in which the carrier device is a C-arm (8) arranged axially offset from and coaxial relative to the x-ray C-arm (4), on which C-arm (8) the boom (64) is borne with its fixed end (67) such that said boom (64) can move orbitally.
- 25 4. System (2) according to claim 3, in which the C-arm (8) is borne such that it can move orbitally.
5. System (2) according to claim 1 or 2, in which the carrier device is an articulated arm (208) comprising a plurality of arm segments (250, 254) connected  
30 via joints (248, 256, 262), with the free end (260) of which articulated arm (208) the fixed end (67) of the boom (64) is connected.

6. System (2) according to claim 5, in which all joints (248, 256, 262) of the articulated arm (208) exhibit rotation axes (252, 258, 266) running parallel to one another and at a right angle to the orbital plane (40) of the x-ray C-arm (4),  
5 whereby the boom is rotatably connected with the free end of the articulated arm (208).
7. System (2) according to any of the preceding claims, in which the shockwave head (6) is crossed by a central region (96) extending along its  
10 shockwave axis (68) and that is permeable for x-rays.
8. System (2) according to any of the preceding claims, in which the x-ray C-arm (4) can be angularly panned.
- 15 9. System (2) according to any of the preceding claims, in which the carrier device together with the shockwave head (6) can be moved from a treatment position into a park position removed from the patient table (10) or, respectively, a patient (76) borne thereupon.
- 20 10. System (2) according to any of the preceding claims, with a patient table (10) crossing the x-ray C-arm (4), which patient table is supported outside of the movement range of x-ray C-arm (4) and carrier device.

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